## WHAT IS CLAIMED IS:

1. A lens system comprising: in order from the front to the rear,

a first lens unit having a negative optical power, the first lens element consisting of a lens element whose rear surface has a concave shape;

an aperture stop; and

a second lens unit having a positive optical power, the second lens element comprising three lens elements,

wherein the following condition is satisfied:

0.7 < td/f < 1.3

where td denotes a length of the entire lens system, and f denotes a focal length of the entire lens system.

2. The lens system according to Claim 1, wherein

the following conditions are satisfied:

0.8<|f1|/f<2.5 /

0.1<d2/f<0.8

where f1 denotes a focal length of the first lens unit, and d2 denotes an interval from a rearmost surface of the first lens unit to a foremost surface of the second lens unit.

3. The lens system according to Claim 1, wherein

the second lens unit comprises a lens element which satisfies the following condition:

n>2.0

where n denotes a refractive index of the material of the lens element.

- 4. The lens system according to Claim 1, wherein the second lens unit has one or more aspherical surfaces.
- 5. The lens system according to Claim 1, wherein the lens system forms an image on a photosensitive surface of a photoelectric conversion element.
- 6. An image-taking apparatus comprising:
  - a lens system according to Claim 1 and
- a photoelectric conversion element which receives light of an image formed by the lens system.
- 7. The image-taking apparatus according to Claim 6, wherein the following condition is satisfied:
  - $0.19 < (\tan \omega \phi/2f)/(1 ok/f) < 0.37$

where  $\varphi$  denotes an effective diameter of a rearmost surface of the second lens unit,  $\omega$  denotes a half-field angle of the entire lens system determined by an effective

region of the photosensitive surface of the photoelectric conversion element, and ok denotes a distance from a rearmost surface of the entire lens system to a position of a rear principal point of the entire lens system.

8. The image-taking apparatus according to Claim 6, wherein the following condition is satisfied:

15°<θ<25°

where  $\theta$  denotes an angle formed by an off-axis principal ray which are directed from a rearmost surface of the second lens unit to a maximum image height on a photosensitive surface of the photoelectric conversion element and an on-axis principal ray.

- 9. A lens system comprising: in order from the front to the rear.
- a first lens element having a meniscus shape whose concave surface is directed rearward and having a negative optical power;

an aperture stop;

- a second lens element whose both lens surfaces have a convex shape;
- a third lens element whose both lens surfaces have a concave shape; and
  - a fourth lens element whose rear surface has a convex

shape and having a positive optical power,

wherein lens elements included in the lens system are only the first to fourth lens elements.

- 10. The lens system according to Claim 9, wherein the following conditions are satisfied:
  - 0.8<|f1a|/fa<2.5
  - 0.1<d2a/fa<0.8

where fla denotes a focal length of the first lens element, fa denotes a focal length of the entire lens system, and d2a denotes an interval from a rear surface of the first lens element to a front surface of the second lens element.

11. The lens system according to Claim 9, wherein the following condition is satisfied: na>2.0

where na denotes a refractive index of a material of the second lens element.

- 12. The lens system according to Claim 9,
  wherein the fourth lens element has one or more
  aspherical surfaces.
- 13. The lens system according to Claim 9, wherein the lens system forms an image on a

photosensitive surface of a photoelectric conversion element.

- 14. An image-taking apparatus comprising:
  - a lens system according to Claim 9 and
- a photoelectric conversion element which receives light of an image formed by the lens system.
- 15. The image-taking according to Claim 14, wherein the following condition is satisfied:
  - $0.19 < (\tan \omega a \phi a/2f)/(1 oka/f) < 0.37$

where  $\phi$ a denotes an effective diameter of a rear surface of the fourth lens element,  $\omega$ a denotes a half-field angle of the entire lens system determined by an effective region of a photosensitive surface of the photoelectric conversion element, and oka denotes a distance from a rearmost surface of the entire lens system to a position of a rear principal point of the entire lens system.

16. The image-taking apparatus according to Claim 14, wherein

the following condition is satisfied:

15°<θa<25°

where  $\theta a$  denotes an angle formed by an off-axis principal ray which are directed from a rear surface of the fourth lens element to a maximum image height on a

photosensitive surface of the photoelectric conversion element and an on-axis principal ray.

- 17. An image-taking apparatus comprising:
  - a lens system comprising:
- a first lens element having a negative optical power, the first lens element consisting of a lens element whose surface has a concave shape;

an aperture stop;

- a second lens element having a positive optical power, the second lens element comprising three lens elements; and
- a photoelectric conversion element which receives light of an image formed by the lens system,

wherein the following condition is satisfied:

 $0.19 < (\tan \omega - \phi/2f)/(1 - ok/f) < 0.37$ 

where  $\phi$  denotes an effective diameter of a rearmost surface of the second lens unit,  $\omega$  denotes a half-field angle of the entire lens system determined by an effective region of a photosensitive surface of the photoelectric conversion element, and ok denotes a distance from a rearmost surface of the entire lens system to a position of a rear principal point of the entire lens system.

- 18. An image-taking apparatus comprising:
  - a lens system comprising:

a first lens unit having a negative optical power, the first lens element consisting of a lens element whose surface has a concave shape;

an aperture stop;

a second lens unit having a positive optical power, the second lens element comprising three lens elements; and

a photoelectric conversion element which receives light of an image formed by the lens system,

wherein the following condition is satisfied:

15°<θ<25°

where  $\theta$  denotes an angle formed by an off-axis principal ray which are directed from a rearmost surface of the second lens unit to a maximum image height on a photosensitive surface of the photoelectric conversion element and an on-axis principal ray.